ANTELOPE VALLEY DRAINAGE FEE INCREASE – COST BASIS SUMMARY

Below is a summary of the actions taken to justify the drainage impact fee associated with land available for subdivision into residential lots and commercial/industrial acreage within the unincorporated portions of Los Angeles County in the Antelope Valley Drainage Area.

- Public Works' Mapping and Property Management Division produced a digital version of the 1987 Antelope Valley Drainage Study map. They then determined the amount of open channel, closed conduit, and detention/retention basins required within the unincorporated portions of the Antelope Valley (32 miles of open channel; 22 miles of closed conduit; 8 detention/retention basins).
- 2. Public Works' Mapping and Property Management Division then used the Los Angeles County Department of Regional Planning's Zoning Ordinance Summary to develop a table depicting undeveloped unincorporated area and the planned zoning.
- 3. Public Works then determined the **total number of developed single-family lots** (7,107), multi-family lots (715), and the commercial/industrial acreage (980) within unincorporated areas of the Antelope Valley. Developed land was assumed to have an improvement value equal or greater than \$5,000.
- 4. Public Works' Design Division provided cost estimates for open channel and closed conduit piping. Several assumptions were used to develop the cost estimates, including: a) bridge structures over channel at street crossings are not included in the cost estimate due to lack of specific site information; b) unit price provided is based on June 2006 costs; and c) the estimated costs are for the installation of the drain under NORMAL conditions, not to include street improvements, BMP implementation, or right-of-way acquisition. The linear cost per foot estimates for a 12-foot wide by 8-foot high open channel and a 72-inch closed conduit pipe were \$1,106.49 and \$656.45, respectively.
- 5. Public Works' Watershed Management Division derived cost estimates for detention/retention basins. Several assumptions were used to develop the detention/retention basin cost estimates. Costs were broken into the following three categories: 1) ROW acquisition; 2) excavation; and 3) infrastructure costs. A cost of \$22,201,861.78 was estimated for each detention/retention basin.
- 6. WMD used the linear cost per foot for open channel and closed conduit piping, and the total length of open channel and closed conduit piping required, and added the 8 detention/retention basin costs, to determine a construction cost subtotal. We then added 25% for design and construction management to arrive at a total cost of \$551,025,845.80, of which \$483,376,584.75 is attributable to future development. Attachment 1 details the amendments in detail to the Antelope Valley Final Report on the Comprehensive Plan of Flood Control and Water Conservation, June 1987.
- 7. For comparison purposes, the Cities of Palmdale and Lancaster currently charge approximately \$4,000 per residential lot developed within city boundaries. We determined that a fee of \$5,500 per residential lot, \$2,750 per multi-family lot, and \$27,500 commercial/industrial acreage will meet the capital construction costs for the construction of 32 miles of open channel, 22 miles of closed conduit piping (please refer to Attachment 1), and the 8 detention/retention basins.